JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1]A slot machine comprising:

A display which two or more patterns align in all directions, and is shown.

In a slot machine which supplied a regular right to a game person when a pattern which has a final controlling element for changing each of that pattern, and was shown in said display formed a predetermined winning—a-prize pattern, An identification device which leaves a pattern which formed a winning—a-prize pattern in said display, and a field which counters while it has been transparent and by which other patterns and a field which counters are temporarily made translucent or opaque.

[Claim 2]A slot machine comprising:

A display which two or more patterns align in all directions, and is shown.

In a slot machine which supplied a regular right to a game person when a pattern which has a final controlling element for changing each of that pattern, and was shown in said display formed a predetermined winning—a-prize pattern, An identification device distinguished from a field where it paints to this pattern and a field which counters, making into a visible state a pattern in which a winning—a-prize pattern was formed, and other patterns counter said display.

[Claim 3]Claim 1 to which an identification device changes from a liquid crystal panel, or a slot machine indicated to 2.

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the slot machine which determines whether to be winning a prize from enumeration of the pattern shown in a display.

[0002]

[Description of the Prior Art]. Conventionally, a slot machine is well known as a game machine with which a pattern is doubled. The kind of slot machine makes 3 parallel the drum of the ring shape which gave several kinds of patterns to the peripheral surface at equal intervals, contains it in a machine frame, and enables it to have recognized some of the patterns of each of that drum visually from the outside through the display slack fluoroscopy window generally. The display carries out the opening of the front face of a machine frame selectively, for example corresponding to each drum, and closes the opening with transparent materials, such as a glass plate.

Here, as usually, for every drum, a total of nine patterns align three [at a time] here in all directions, and it is shown.

A slot machine is what performs a game using a predetermined medal here. The final controlling element for changing the entrance slot which throws in the medal for it, and the pattern shown in a display after an injection of a medal to a machine frame, When enumeration of the pattern updated by operation of this final controlling element forms a predetermined winning—a-prize pattern, the hopper etc. in which the return port for returning the medal for a predetermined number and the medal for return are stored are formed. Although a final controlling element comprises a slot lever for rotating each drums all at once, and a stop button which can stop the drum under rotation individually, there is also a thing of form which makes each drum stop automatically, without having a stop button.

[0003]And if according to the slot machine constituted as mentioned above enumeration of the pattern shown in a display forms a predetermined winning—a-prize pattern when a final controlling element is operated, a game is performed after an injection of the medal to an entrance slot and all the drums stop, the game person can acquire rights. For example, when the predetermined pattern in a top drum is shown in a display, a medal is returned two sheets, When the pattern of the same kind in a ***** drum arranges on a straight line, the medal of 6-15 sheets is returned by the classification of the pattern, When "7" arranges on a straight line as a pattern of the same kind especially, the right for the probability which forms a winning—a-prize pattern in subsequent games with return of the medal of a predetermined number to be raised will be acquired.

[0004]Generally, the number of injections of the medal per time makes three sheets a maximum, and them at the time of an one—sheet injection the horizontal single tier of the middle, At the time of a two-sheet injection, which horizontal single ter of each stage with the supply of a right [as

http://www4.ipdl.inpit.go.jp/cgi-bin/tran_web_cgi_ejje?atw_u=http%3A%2F%2Fwww4.ip... 3/30/201

opposed to / when the sequence which added the oblique direction at the time of a three sheet injection is made into a winning-a-prize decision line, respectively and a winning-a-prize pattern is

formed on the line / like / **** / a game person]. It enables it to have told winning a prize to the game person by making the lamp formed near the display turn on.

[0005]

[Problem to be solved by the invention]Only however, the thing which formed the lamp which tells winning a prize near the display. The enjoyment of a game will be lacked that it is difficult like before for a winning line to express with which line a prize was won when a winning line was complicated, in order to attain diversification of a game better at the cases of being comparatively simple, such as linear, and the distinction is not easily attached as for a game person.

[0006]This invention is accomplished in view of the above situations, and it is in a game person raising the enjoyment of a game substantially, as the place made into the purpose can distinguish easily a pattern applicable at the time of winning a prize.

[0007]

[Means for solving problem]The thing this invention is characterized by that comprises the following and which provides a slot machine.

The display which two or more patterns align in all directions, and is shown in order to attain the above-mentioned purpose.

In the slot machine which supplied the regular right to the game person when the pattern which has a final controlling element for changing each of that pattern, and was shown in said display formed a predetermined winning—a-prize pattern. The identification device which leaves the pattern which formed the winning—a-prize pattern in said display, and the field which counters while it has been transparent and by which other patterns and the field which counters are temporarily made translucent or opaque.

[0008]The slot machine this invention is characterized by that comprises the following. The display which two or more patterns align in all directions as other modes, and is shown. In the slot machine which supplied the regular right to the game person when the pattern which has a final controlling element for changing each of that pattern, and was shown in said display formed a predetermined winning—a-prize pattern. The identification device distinguished from the field where it paints to this pattern and the field which counters, making into a visible state the pattern in which the winning—a-prize pattern was formed, and other patterns counter said display.

[0009]Although the shield whose opening and closing are enabled individually can also be formed on the display position of each pattern as an identification device here, it is desirable to constitute an identification device from a liquid crystal panel preferably.

[0010]

[Mode for carrying out the invention]Hereafter, the example of application of this invention is explained in detail based on Drawings. First, <u>drawing 1</u> is a front view showing an example of a slot machine. In <u>drawing 1</u>, it is a machine frame in which 1 accomplishes the exterior of a slot machine, and the pivotable drum which made 2 the letter of 3 parallel and provided it in the inside of a machine frame, and two or more patterns of the kind are given to the peripheral surface of each of that drum 2 at equal intervals in the hoop direction, respectively. 3 is a display which can see through the pattern of each drum, and for every drum, a total of nine patterns align three [at a time] in all directions at this display 3, and it is shown in it. 4 is a final controlling element for changing the pattern which appeared in the display, and this final controlling element 4 comprises the slot lever 5 for rotating each drums 2 all at once, and the stop button 6 for stopping each drum 2 individually. The guidance light for specifying the starting light which 7 formed under the display corresponding to each drum, and the winning line validated by 8, 9 is an entrance slot of a medal required to perform a game, among these the starting light 7 is turned on during rotation of the drum 2, according to the number of injections of a medal, the light is switched on in order, and the guidance light 8 blinks only the thing on a line applicable at the time of winning a prize. A return port

for 10 to pay out the medal of a predetermined number at the time of winning a prize, the saucer which receives the medal which 11 paid out, and 12 are displays for indication which display the volume of payment of a medal. Here, the medal used for a game can be stored not only in supplying from an entrance slot each time but in an internal memory to 50 sheets as data. The injection button used when the display for indication with which 13 shows the reservoir quantity, and 14 use this medal, and 15 are the liquidation buttons for taking out the actual thing of this medal. In addition, the return button used when the medal which 16 threw into the entrance slot is got blocked, and 17 show the ash pan.

[0011]Next, <u>drawing 2</u> shows the example of composition of the control circuit in an application—concerned slot machine. In <u>drawing 2</u>, control—block A begins CPU18 as a central procession unit, the execution program of the game is written in ROM19, including ROM19 and RAM20, and the data needed for games, such as the amount of reservoir medal numbers, is written in RAM20 each time. [0012]On the other hand, as for the drum 2, control—block B is linked with CPU18 via the control section 21 and the position transducer 22 of the motor for driving, including the drum 2 as a controlled object, the slot lever 5 as the final controlling element 4, the stop button 6, and the entrance slot 9. It is made for the quantity of the medal thrown in from the entrance slot 9 to be transmitted through the quantity detector 23 CPU18 with this figure, so that clearly. Here, an output unit including the starting light 7, the guidance light 8, the displays for indication 12 and 13, etc. is connected to CPU18 via the control section 24. The hopper 26 in which many medals are stored, and the liquid crystal panel 33 mentioned later are also respectively connected to CPU18 via the control sections 25 and 27.

[0013]Next, drawing 3 shows an example of composition of a display. The display 3 carries out the opening of the part of a front face of the machine frame 1 which faces a peripheral surface of each drum 2, considers it as the window 31, and is constituted by fixing the liquid crystal panel 33 via the bezel 32 inside this window 31 so that clearly [in this figure]. The liquid crystal panel 33 constitutes an identification device which can distinguish easily a pattern in which a winning-a-prize pattern was formed, as coloring control of a pattern of each drum 2 at the time of a stop and the nine fields which counter is individually carried out by the driver slack control section 27. [0014]Drawing 4 is the example which painted to an opposed face with other patterns, and was made translucent, leaving an opposed face with a pattern in which a winning-a-prize pattern was formed, transparently and colorlessly. In drawing 4, a winning-a-prize pattern is formed of three patterns shown with a star shape, A pattern of a star shape which forms that winning-a-prize pattern at this time, and a field which counters are left behind while it has been water-white, it is painted to a field where other patterns unrelated to a winning-a-prize pattern counter by translucent state (slash part of a figure), and it is made indistinct [this pattern]. A pattern which forms a winning-a-prize pattern by this, and the other pattern are divided into light and darkness, and since it becomes clear while only a pattern which forms a winning-a-prize pattern has been a visible state, the game person can distinguish a winning-a-prize state in an instant.

[0015]Here, if an operation of the slot machine constituted as mentioned above is explained, in performing a game, a game person will throw the medal of 1–3 sheets into the entrance slot 9 first. Then, while the winning line validated is decided, the game person can check the number of injections of a medal with lighting of the guidance light 8. And after checking this, each drums 2 rotate all at once by operating the slot lever 5. Then, timing is measured, each stop button 6 is pushed, and the corresponding drum 2 is stopped in order. If the pattern which all the drums 2 stopped and was shown in the display 3 in this way forms a predetermined winning-a-prize pattern, it will be detected by the position transducer 22 which this shows to drawing 2, and the detection signal will be outputted to the control section 27 of the liquid crystal panel 33 through CPU18. The liquid crystal panel 33 drives only fixed time by this, and it leaves the pattern in which the winning-a-prize pattern was formed, and the field which counters, and it is palely painted to other patterns and the field which counters in red etc., and it is made translucent. And when fixed time passes, it

will change the liquid crystal panel 33 into a non-operative state, and all the corresponding patterns can be vividly checked through the display 3 by returning all the fields transparently and colorlessly. [0016]When the expenditure signal of a medal is outputted also to the hopper 26 through the control section 25 at the time of winning a prize and a prize is especially won in a predetermined pattern, the program of ROM19 carries out a step to a specific routine as everyone knows, and what is called a bonus game is started. On the other hand, if it becomes clear that the winning—prize pattern is not formed on which winning line by the position transducer 22, The signal is outputted to the control section 27 of the liquid crystal panel 33 through CPU18, and it tells that it was painted only to fixed time by the translucent state, and all the fields of the liquid crystal panel 33 which counters each pattern by this did not win a prize of a game person.

[0017]As mentioned above, although a suitable example of this invention was explained, this invention can also make the pattern corresponding to this the entire invisible state instead of an indistinct display not only the above-mentioned example but by making deep coloring of a pattern unrelated to a winning-a-prize pattern, and the field which counters, for example, and making this field opaque. On the contrary, while painting to an opposite field with this pattern at a translucent state, with the fluoroscopy of the pattern in which the winning-a-prize pattern was formed enabled, while it has been water-white, it can leave an opposite field with other patterns. While painting in the translucent state, the field on a pattern unrelated to a winning-a-prize pattern, and it may be made to paint to the field on the pattern in which the winning-a-prize pattern, and it may be made to paint to the field on the pattern in which the winning-a-prize pattern was formed, translucent or opaquely.

[0018]As a menthod of controlling an identification device slack liquid crystal panel, whenever 1 time

[U018]As a method of controlling an identification device slack liquid crystal panel, whenever 1 time of a game is completed (after a stop of all the drums), it paints to all the fields of the liquid crystal panel 33 translucent or opaquely. When the field on a winning line corresponding in response to the detecting signal at the time of a medal injection is made transparent, all the drums 2 stop and a winning—a-prize pattern is formed in a predetermined pattern, it leaves the field which counters this and other fields are previously made translucent or opaque, and subsequently, it may be made to made a winning—a-prize pattern space translucent or opaque (after fixed time lapse until a medal finishes paying out).

[0019]An identification device is not constituted from a liquid crystal panel of one sheet, but it may be made to control these individually on the other hand using the liquid crystal panel of the number corresponding to the pattern which appears in a display, respectively. An identification device slack liquid crystal panel is made to face on the peripheral surface of each drum, and it does not equip, but may be made to pile up the liquid crystal panel as an identification device on the display as a display which comprises a liquid crystal display in each drum. It may be made to form individually the shield in which switching operation is possible on the display surface of each pattern in the display which a pattern aligns in all directions and is shown not using a liquid crystal panel as an identification device, respectively.

[0020]Here, a winning-a-prize pattern may not be restricted to a pattern of the same kind arranging on a straight line, and the case where the pattern shown with a heart shape, for example like drawing 5 is located in a line with cross shope may be set up as a winning-a-prize pattern. Even if it uses a winning-a-prize pattern like drawing 5 by this invention especially, it is possible to distinguish this in an instant.

[0021]

Effect of the Invention]By the above explanation, according to the slot machine concerning this invention, so that clearly. When the pattern which appeared on the display forms a predetermined winning—a-prize pattern, From having the identification device which made translucent or opaque the field where the opposite field is made transparent and an unrelated pattern counters. A game person can distinguish in an instant whether at the time of winning a prize, which winning—a-prize pattern of a number of inside was formed, and in what kind of position of a display the winning—a-prize pattern was formed. Thereby, it can complicate a winning—a-prize pattern and the enjoyment of a game not

only increases,	but	can a	attain	diversifica	ation	of a	game.
-----------------	-----	-------	--------	-------------	-------	------	-------

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

TECHNICAL FIELD

[Field of the Invention]This invention relates to the slot machine which determines whether to be winning a prize from enumeration of the pattern shown in a display.

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

PRIOR ART

[Description of the Prior Art]. Conventionally, a slot machine is well known as a game machine with which a pattern is doubled. The kind of slot machine makes 3 parallel the drum of the ring shape which gave several kinds of patterns to the peripheral surface at equal intervals, contains it in a machine frame, and enables it to have recognized some of the patterns of each of that drum visually from the outside through the display slack fluoroscopy window generally. The display carries out the opening of the front face of a machine frame selectively, for example corresponding to each drum, and closes the opening with transparent materials, such as a glass plate.

Here, as usually, for every drum, a total of nine patterns align three [at a time] here in all directions, and it is shown.

A slot machine is what performs a game using a predetermined medal here. The final controlling element for changing the entrance slot which throws in the medal for it, and the pattern shown in a display after an injection of a medal to a machine frame. When enumeration of the pattern updated by operation of this final controlling element forms a predetermined winning—a—prize pattern, the hopper etc. in which the return port for returning the medal of a predetermined number and the medal for return are stored are formed. Although a final controlling element comprises a slot lever for rotating each drums all at once, and a stop button which can stop the drum under rotation individually, there is also a thing of form which makes each drum stop automatically, without having a stop button.

[0003]And if according to the slot machine constituted as mentioned above enumeration of the pattern shown in a display forms a predetermined winning—a-prize pattern when a final controlling element is operated, a game is performed after an injection of the medal to an entrance slot and all the drums stop, the game person can acquire rights. For example, when the predetermined pattern in a top drum is shown in a display, a medal is returned two sheets, When the pattern of the same kind in a **** drum arranges on a straight line, the medal of 6-15 sheets is returned by the classification of the pattern, When "7" arranges on a straight line as a pattern of the same kind especially, the right for the probability which forms a winning—a-prize pattern in subsequent games with return of the medal of a predetermined number to be raised will be acquired.

[0004]Generally, the number of injections of the medal per time makes three sheets a maximum, and them at the time of an one—sheet injection the horizontal single tier of the middle, At the time of a two—sheet injection, which horizontal single tier of each stage with the supply of a right [as opposed to / when the sequence which added the oblique direction at the time of a three sheet injection is made into a winning—a-prize decision line, respectively and a winning—a-prize pattern is formed on the line / like / **** / a game person]. It enables it to have told winning a prize to the game person by making the lamp formed near the display turn on.

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

EFFECT OF THE INVENTION

[Effect of the Invention]By the above explanation, according to the slot machine concerning this invention, so that clearly. When the pattern which appeared on the display forms a predetermined winning—a—prize pattern. From having the identification device which made translucent or opaque the field where the opposite field is made transparent and an unrelated pattern counters. A game person can distinguish in an instant whether at the time of winning a prize, which winning—a-prize pattern of a number of inside was formed, and in what kind of position of a display the winning—a-prize pattern was formed. Thereby, it can complicate a winning—a-prize pattern and the enjoyment of a game not only increases, but can attain diversification of a game.

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

TECHNICAL PROBLEM

[Problem to be solved by the invention]Only however, the thing which formed the lamp which tells winning a prize near the display. The enjoyment of a game will be lacked that it is difficult like before for a winning line to express with which line a prize was won when a winning line was complicated, in order to attain diversification of a game better at the cases of being comparatively simple, such as linear, and the distinction is not easily attached as for a game person.

[0006]This invention is accomplished in view of the above situations, and it is in a game person raising the enjoyment of a game substantially, as the place made into the purpose can distinguish easily a pattern applicable at the time of winning a prize.

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

MEANS

[Means for solving problem]The thing this invention is characterized by that comprises the following and which provides a slot machine.

The display which two or more patterns align in all directions, and is shown in order to attain the above-mentioned purpose.

In the slot machine which supplied the regular right to the game person when the pattern which has a final controlling element for changing each of that pattern, and was shown in said display formed predetermined winning—a-prize pattern. The identification device which leaves the pattern which formed the winning—a-prize pattern in said display, and the field which counters while it has been transparent and by which other patterns and the field which counters are temporarily made translucent or opaque.

[0008] The slot machine this invention is characterized by that comprises the following. The display which two or more patterns align in all directions as other modes, and is shown. In the slot machine which supplied the regular right to the game person when the pattern which has a final controlling element for changing each of that pattern, and was shown in said display formed a predetermined winning—a—prize pattern. The identification device distinguished from the field where it paints to this pattern and the field which counters, making into a visible state the pattern in which the winning—a—prize pattern was formed, and other patterns counter said display.

[0009]Although the shield whose opening and closing are enabled individually can also be formed on the display position of each pattern as an identification device here, it is desirable to constitute an identification device from a liquid crystal panel preferably. [0010]

[Mode for carrying out the invention]Hereafter, the example of application of this invention is explained in detail based on Drawings. First, <u>drawing 1</u> is a front view showing an example of a slot machine. In <u>drawing 1</u>, it is a machine frame in which 1 accomplishes the exterior of a slot machine, and the pivotable drum which made 2 the letter of 3 parallel and provided it in the inside of a machine frame, and two or more patterns of the kind are given to the peripheral surface of each of that drum 2 at equal intervals in the hoop direction, respectively. 3 is a display which can see through the pattern of each drum, and for every drum, a total of nine patterns align three [at a time] in all directions at this display 3, and it is shown in it. 4 is a final controlling element for changing the pattern which appeared in the display, and this final controlling element 4 comprises the slot lever 5 for rotating each drums 2 all at once, and the stop button 6 for stopping each drum 2 individually. The guidance light for specifying the starting light which 7 formed under the display corresponding to each drum, and the winning line validated by 8, 9 is an entrance slot of a medal required to perform a game, among these the starting light 7 is turned on during rotation of the drum 2, according to the number of injections of a medal, the light is switched on in order, and the

guidance light 8 blinks only the thing on a line applicable at the time of winning a prize. A return port for 10 to pay out the medal of a predetermined number at the time of winning a prize, the saucer which receives the medal which 11 paid out, and 12 are displays for indication which display the volume of payment of a medal. Here, the medal used for a game can be stored not only in supplying from an entrance slot each time but in an internal memory to 50 sheets as data. The injection button used when the display for indication with which 13 shows the reservoir quantity, and 14 use this medal, and 15 are the liquidation buttons for taking out the actual thing of this medal. In addition, the return button used when the medal which 16 threw into the entrance slot is got blocked, and 17 show the ash pan.

[0011]Next, <u>drawing 2</u> shows an example of composition of a control circuit in an application—concerned slot machine. In <u>drawing 2</u>, control-block A begins CPUI8 as a central processing unit, an execution program of a game is written in ROM19, including ROM19 and RAM20, and data needed for games, such as the amount of reservoir medal numbers, is written in RAM20 each time. [0012]On the other hand, as for the drum 2, control-block B is linked with CPU18 via the control section 21 and the position transducer 22 of the motor for driving, including the drum 2 as a controlled object, the slot lever 5 as the final controlling element 4, the stop button 6, and the entrance slot 9. It is made for quantity of a medal thrown in from the entrance slot 9 to be transmitted through the quantity detector 23 CPU18 with this figure, so that clearly. Here, an output unit including the starting light 7, the guidance light 8, the displays for indication 12 and 13, etc. is connected to CPU18 via the control section 24. The hopper 26 in which many medals are stored, and the liquid crystal panel 33 mentioned later are also respectively connected to CPU18 via the control section 25 and 27.

[0013]Next, drawing 3 shows the example of composition of a display. The display 3 carries out the opening of the part of the front face of the machine frame 1 which faces the peripheral surface of each drum 2, considers it as the window 31, and is constituted by fixing the liquid crystal panel 33 via the bezel 32 inside this window 31 so that clearly [in this figure]. The liquid crystal panel 33 constitutes the identification device which can distinguish easily the pattern in which the winning-aprize pattern was formed, as coloring control of the pattern of each drum 2 at the time of a stop and the nine fields which counter is individually carried out by the driver slack control section 27. [0014]Drawing 4 is the example which painted to the opposed face with other patterns, and was made translucent, leaving an opposed face with the pattern in which the winning-a-prize pattern was formed, transparently and colorlessly. In drawing 4, a winning-a-prize pattern is formed of three patterns shown with a star shape, The pattern of the star shape which forms that winning-a-prize pattern at this time, and the field which counters are left behind while it has been water-white, it is painted to the field where other patterns unrelated to a winning-a-prize pattern counter by the translucent state (slash part of a figure), and it is made indistinct [this pattern]. The pattern which forms a winning-a-prize pattern by this, and the other pattern are divided into light and darkness, and since it becomes clear while only the pattern which forms a winning-a-prize pattern has been a visible state, the game person can distinguish a winning-a-prize state in an instant. [0015] Here, if an operation of the slot machine constituted as mentioned above is explained, in performing a game, a game person will throw the medal of 1-3 sheets into the entrance slot 9 first. Then, while the winning line validated is decided, the game person can check the number of injections of a medal with lighting of the guidance light 8. And after checking this, each drums 2 rotate all at once by operating the slot lever 5. Then, timing is measured, each stop button 6 is pushed, and the corresponding drum 2 is stopped in order. If the pattern which all the drums 2 stopped and was shown in the display 3 in this way forms a predetermined winning-a-prize pattern, it will be detected by the position transducer 22 which this shows to drawing 2, and the detecting signal will be outputted to the control section 27 of the liquid crystal panel 33 through CPU18. The liquid crystal panel 33 drives only fixed time by this, and it leaves the pattern in which the winninga-prize pattern was formed, and the field which counters, and it is palely painted to other patterns

and the field which counters in red etc., and it is made translucent. And when fixed time passes, it will change the liquid crystal panel 33 into a non-operative state, and all the corresponding patterns can be vividly checked through the display 3 by returning all the fields transparently and colorlessly. [0016]When the expenditure signal of a medal is outputted also to the hopper 26 through the control section 25 at the time of winning a prize and a prize is especially won in a predetermined pattern, the program of ROM19 carries out a step to a specific routine as everyone knows, and what is called a bonus game is started. On the other hand, if it becomes clear that the winning-a-prize pattern is not formed on which winning line by the position transducer 22, The signal is outputted to the control section 27 of the liquid crystal panel 33 through CPU18, and it tells that it was painted only to fixed time by the translucent state, and all the fields of the liquid crystal panel 33 which counters each pattern by this did not win a prize of a game person.

[0017]As mentioned above, although a suitable example of this invention was explained, this invention can also make the pattern corresponding to this the entire invisible state instead of an indistinct display not only the above—mentioned example but by making deep coloring of a pattern unrelated to a winning—a-prize pattern, and the field which counters, for example, and making this field opaque. On the contrary, while painting to an opposite field with this pattern at a translucent state, with the fluoroscopy of the pattern in which the winning—a-prize pattern was formed enabled, while it has been water—white, it can leave an opposite field with other patterns. While painting in the translucent state, the field on a pattern unrelated to a winning—a-prize pattern is made unique with the field on the pattern related to a winning—a-prize pattern, and it may be made to paint to the field on the pattern in which the winning—a-prize pattern was formed, translucent or opaquely.

[0018]As a method of controlling an identification device slack liquid crystal panel, whenever 1 time of a game is completed (after a stop of all the drums), it paints to all the fields of the liquid crystal panel 33 translucent or opaquely, When the field on a winning line corresponding in response to the detecting signal at the time of a medal injection is made transparent, all the drums 2 stop and a winning—a—prize pattern is formed in a predetermined pattern, It leaves the field which counters this and other fields are previously made translucent or opaque, and subsequently, it may be made to make a winning—a—prize pattern space translucent or opaque (after fixed time lapse until a medal finishes paying out).

[0019]An identification device is not constituted from a liquid crystal panel of one sheet, but it may be made to control these individually on the other hand using the liquid crystal panel of the number corresponding to the pattern which appears in a display, respectively. An identification device slack liquid crystal panel is made to face on the peripheral surface of each drum, and it does not equip, but may be made to pile up the liquid crystal panel as an identification device on the display as display which comprises a liquid crystal display in each drum. It may be made to form individually the shield in which switching operation is possible on the display surface of each pattern in the display which a pattern aligns in all directions and is shown not using a liquid crystal panel as an identification device, respectively.

[0020]Here, a winning-a-prize pattern may not be restricted to a pattern of the same kind arranging on a straight line, and the case where the pattern shown with a heart shape, for example like drawing 5 is located in a line with cross shape may be set up as a winning-a-prize pattern. Even if it uses a winning-a-prize pattern like drawing 5 by this invention especially, it is possible to distinguish this in an instant.

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The transverse-plane schematic view showing the slot machine concerning this invention

[Drawing 2] The block diagram showing the control circuit of the slot machine

<u>[Drawing 3]</u>The fragmentary sectional view showing the example of composition of a display roughly <u>Drawing 4</u>]The transverse-plane schematic view of a display showing the state where the pattern in which winning-a-prize Pan was formed, and the other pattern were classified

[<u>Drawing 5</u>]The transverse-plane schematic view of a display showing the modification of a winninga-prize pattern

[Explanations of letters or numerals]

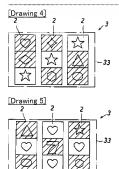
1 Machine frame

- 2 Drum
- 2 Drum 3 Display
- 4 Final controlling element
- 5 Slot lever
- 6 Stop button
- 31 Window
- 32 Bezel
- 33 Liquid crystal panel

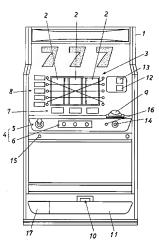
JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DRAWINGS

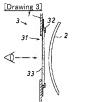


[Drawing 1]



[Drawing 2]





(19)日本国特許庁 (JP) (12) 公開特許公報(A)

(11)特許出願公開番号 特開2000-300729 (P2000-300729A)

(43)公開日 平成12年10月31日(2000,10,31)

(51) Int.Cl.7 識別記号 FΙ A 6 3 F 5/04 512 A63F 5/04

テーマコート*(参考) 512F

審査請求 未請求 請求項の数3 OL (全 5 頁)

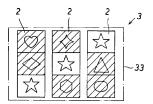
(21)出願番号	特膜平11-118554	(71)出願人	595096903
			べん慶企画有限会社
(22)出顧日	平成11年4月26日(1999.4.26)		島根県松江市菅田町19番地1
		(72) 発明者	西川忠男
		(15)7474	島根県松江市菅田町19番※1 べん磨企画
			有限会社内
		and then I	
		(74)代理人	100092808
			弁理士 羽鳥 亘

(54) 【発明の名称】 スロットマシン

(57)【要約】

【目的】 パチンコ遊技場などに設置されるスロットマ シンにおいて、入賞時に該当する図柄を遊技者が容易に 判別できるようにしてゲームの面白味を大幅に向上させ 8.

【構成】 複数の図柄が縦横に整列して示されるスロッ トマシンの表示部において、この表示部3に液晶パネル 33を装置し、各図柄をその液晶パネル33を通して透 視できるようにする。そして、入賞時には入賞パターン を形成した図柄と対向する領域を透明のまま残し、他の 図柄が対向する領域を彩色して半透明又は不透明にす る。これにより、入賞パターンと無関係な図柄を不鮮明 又は不可視状態にして、入賞パターンに関係する図柄だ けを明示する。



【特許請求の範囲】

【請求項1】 複数の図網が協議に整列して示される表示部と、その各図個を変化させるための操作部とを有 、前記表示部に示された図稿が所定の人意ツァーンを 形成したときに遊技者に対して規定の権利を供与するよ うにしたスロットマシンにおいて、適記表示部に、入資 パターンを形成した図器と対向する領域を通りのまま残 して、他の短額と対向する領域が一時的に半速明又は不 透明とされる説別手段を備えたことを特徴とするスロットマシン。

【請求項2】 複数の固般が鑑潔に整列して示される表示記と、その各図柄を変化させるための操作部とを有し、前記表示部に示された図柄が所定の人質がターンを形成したときに遊技者に対して規定の権利を供与するようにしたスロットマシンにおいて、前記表示部に、入質パターンを形成した図柄を可視状態にしたまま該図柄と対向する領域を発色して、他の図柄が対向する領域と区別する識別手段を備えたことを特徴とするスロットマシ

【請求項3】 識別手段が液晶パネルから成る請求項 1、又は2に記載したスロットマシン。 【発明の詳細な説明】

[0001]

【発明の属する技術分野】本発明は、表示部に示される 図柄の羅列から入賞が否かを決定するスロットマシンに 関する。

[0002]

【従来の技術】従来、図柄を合わせるゲーム機として、 スロットマシンが良く知られる。一般に、その種のスロ ットマシンは、周面に幾種類かの図柄を等間隔に施した リング状のドラムを3つ並列にして機枠に内蔵し、その 各ドラムの図柄のうちの数個を表示部たる透視窓を通し て外部から視認できるようにしてある。その表示部は、 例えば各ドラムに対応して機枠の前面を部分的に開口 し、その開口部をガラス板などの透明材料により閉鎖し て成るものであり、ここには通例として各ドラム毎に3 つずつ、合計9つの図柄が縦横に整列して示される。こ こで、スロットマシンは所定のメダルを用いてゲームを 実行するものであり、機棒にはそのためのメダルを投入 する投入口、メダルの投入後に表示部に示される図柄を 変化させるための操作部、この操作部の操作で更新され た図柄の羅列が所定の入賞パターンを形成したときに所 定数のメダルを返却するための返却口、及び返却用のメ ダルを蓄えるホッパなどが設けられる。なお、操作部は 各ドラムを一斉に回転させるためのスロットレバーと、 回転中のドラムを個別に停止させることのできるストッ プボタンとから構成されるが、 ストップボタンを備えず に各ドラムを自動停止させる型式のものもある。

【0003】そして、以上のように構成されるスロット マシンによれば、投入口へのメダルの投入後、操作部を 操作してゲームを実行し、全てのドラムが停止したとき に表示部に示される図柄の離別が所定の入資パターンを 形成すると、遊性気化は利能を提得することができる。例 えば、先頭のドラムにおける所定の図開が表示部に示さ れたときメゲルが2枚返却され、又名ドラムにおける同 種の延柄が一直後上に配列したときには同図柄の趣別に よって6~15枚のメダルが返却され、以下に同極の屋柄 として何えば「フ・が一直像上に配列したときなど は、所定数のメダルの返却と共にり降のゲームで入賞パ ターンを別成する確等が高められるという権利を得るこ とになる。

【0004】なお、一回当たりのメグルの投入数は一根 に3枚を上限として、1枚投入時には中段の博一別が、 2枚投入時には全限何れかの構一別が、又3枚投入時に は斜め方向心地た列がそれぞれ入質確定ラインとされ、そのライン上で入賞パターンが形成されたときには 上述の加、海技者に対する権利の供与と共に、表示部の 付近に設けたランプを点灯させるなどして遊技者へ入賞 を知らせられるようにしてある。

[0005]

【発明が解決しようとする課題】しかしながら、表示部の付近に入賞を知らせるランプを設けただけのもの知り 能来のように入賞ラインが道を設けただけのものはう ではまだしも、ゲームの多様化を図るために入賞ライン を視離にした場合などにはどのラインで入賞したかを表 現することが難しく、遊技者にしてもの判別が付きに くくゲームの面白味を欠くことになる。

【0006】本発明は以上のような事情に鑑みて成されたものであり、その目的とする拠は入質時に該当する図 柄を遊技者が容易に判別できるようにしてゲームの面白 味を大幅に向上させることにある。

[0007]

【課題を解決するための手段】本売明は上記目的を達成するため、複数の四階が解構に整列して示される表示部 こ、その各図階を変化させるための操作部とを有し、前 記表示部に示された図柄が所定の入書パターンを形成したときに連接者に対して規定の権利を持与するようにし たときに連接者に対して規定の権利を持与するようにし たスロットマシンにおいて、前記表示部に、入費パター ンを形成した記解と対向する領域を過例のまま現して、 他の認確と対向する領域が一時的に半速明又は不適明と される議別手段を備えたことを特徴とするスロットマシ ンを解析するものである。

【0008】又、本発明まその他の態後として、複数の 国階が解構に整列して示される表示部と、その各国附を 変化させるための操作部とを有し、前記表示部に示され た13個が所定の入費パターンを形成したとちに避好者に 対して規定の複雑を使与するようにしたスロットマシン において、前記表示部に、入費パターンを形成した国柄 を可視状態にしたまま説が附上対向する領域を終色し で、他の国解状物はうて新して別する領別・程を たことを特徴とするスロットマシンを提供する。

【0009】ここで、護別手段として、各図柄の表示位 置上に個別に開閉可能とされる道蔵板を設けることもで きるが、好ましくは護別手段を流品パネルで構成するこ とが望ましい。

[0010]

【発明の実施の形態】以下、本発明の適用例を図面に基 づいて詳細に説明する。先ず、図1はスロットマシンの 一例を示した正面図である。図1において、1はスロッ トマシンの外装を成す機枠、2は機枠の内部に3つ並列 状にして設けた回転可能なドラムであり、その各ドラム 2の周面にはそれぞれ複数種類の図柄が周方向に等間隔 で施されている。3は各ドラムの図柄を透視可能な表示 部であり、この表示部3には各ドラム毎に3つずつ、合 計9つの図柄が縦横に整列して示される。4は表示部に 表れた図柄を変化させるための操作部であり、この操作 部4は各ドラム2を一斉に回転させるためのスロットレ バー5と、各ドラム2を個別に停止させるためのストッ プボタン6とで構成される。7は各ドラムに対応して表 示部の下に設けた起動灯、8は有効とされる入賞ライン を明示するための案内灯、9はゲームを実行するに必要 なメダルの投入口であり、このうち起動灯7はドラム2 の回転中に点灯し、案内灯8はメダルの投入数に応じて 順に点灯すると共に、入賞時には該当するライン上のも ののみ占減する。又、10は入賞時に所定数のメダルを 払い出すための返却口、11は払い出されたメダルを受 ける受皿、12はメダルの払出数量を表示する表示器で ある。ここで、ゲームに用いるメダルは投入口からその 都度投入することに限らず、内部メモリーにデータとし て例えば50枚分まで貯留することができる。13はそ の貯留数量を示す表示器、14は該メダルを使用する場 合に利用する投入ボタン、15は該メダルの現物を取り 出すための清質ボタンである。そのほか、16は投入口 に投入したメダルが詰まったときに利用する返却ボタ ン、17は灰皿を示している。

【0011】次に、図2は本願スロットマシンにおける 制御回路の構成例を示す、図2において、制御プロック 私は中央処理装置としてのCPU18をははめ、ROM 19およでRAM20を含み、このうちROM19には ゲームの実行アログラムが書き込んであり、RAM20 には貯留メグル数量などゲームに必要とされるデータが その路度乗ぎ込まれる。

【00121一方、制御プロックBは剥削材像としての ドラム2、操作部4としてのスロットレバー5及びスト ップボタン6、並びに投入旧9とを含み、このうちドラ ム2はその駆動用モータの制御部21と位置機出器22 を全介してCPU18とリンタされる。又、この例で明 らかなように、投入口9より投入されたメゲルの数量は 数乗機知器23を通じてCPU18に反送されるように してある。ここで、CPU18には起動材7、案内料 8、及び表示器12. 13などを含めた出力装置が制御 部24を介して接続される。又、多数のメダルが密えら れるホッパ26や後述する流晶パネル336名々その制 側部25. 27を介してCPU18に接続される。

[0013]次に、図3は表示部の構成例を示す、この 関で明らかなように、表示部3は例えば各ドラム2の所 面に臨し機特10前面の部がを開口して第31とし、こ の第31の内側にへゼル32を介して流品パネル33を 固定することにより構成される。その流品パネル33 (、停止時における各ドラム2の関門と対向する9つの 領域がドライバたる制御部27により個別に彩色制砂さ れるようにして、入資パーンを形成した図階を容易に 即別、得る流別手段を構成する。

【0014】図4は、入着パターンを形成した図附との 対向面を無色週間に残しつつ、他の図相との対向面を影 色して半透明をした例である。図4において、人費パターンは例とした例である。図4において、人費パターンは例ではより形成さ 向する翻線は無色週別のまま残され、入費パターンと無 関係と他の図相の対向する領域は半透明状態(図の斜線 都)に彩色されて認知が小難明とされる。これにより 人者パターンを形成する図標とされりかの図相分明確に 分かれ、入費パターンを形成する図標だけが可模状態の まま影明化なるので、遊技着は入費状態を瞬時に判別す まま影明化なるので、遊技着は入費状態を瞬時に判別す まとかできること

【0015】ここで、以上のように構成されるスロット マシンの作用を説明すれば、遊技者はゲームを実行する にあたり、先ず投入口9へ1~3枚のメダルを投入す る。すると、有効とされる入賞ラインが確定されると同 時に、遊技者は案内灯8の点灯をもってメダルの投入数 を確認することができる。そして、これを確認した後、 スロットレバー5を操作することにより各ドラム2が一 斉に回転する。そこで、タイミングを計って各ストップ ボタン6を押し、対応するドラム2を順に停止させるの である。 斯くて、全てのドラム2が停止して表示部3に 示された図柄が所定の入賞パターンを形成すると、これ が図2に示す位置検出器22により検出され、その検出 信号がCPU18を通じて液晶パネル33の制御部27 に出力される。これにより液晶パネル33が一定時間だ け駆動され、入賞パターンを形成した図柄と対向する領 域を残し、その他の図柄と対向する領域が赤色などで淡 く彩色されて半透明とされる。そして、一定時間が経過 すると、液晶パネル33が不作動状態とされ、全ての領 域が無色透明に戻されることにより、対応する全ての図 柄を表示部3を通して鮮明に確認できることになる。

【0016】なお、人質時には刺刺第25を通じてホッパ26にもメゲルの払出信号が出力されるのであり、特に所定の短暦で入賞したときにはROM19のプログラムが周知のように特定のルーチンにステップして所謂ポーナスゲームが開始される。一方、位置検出器22によ

り何れの入着ライン上でも入費パターンか野販を入れてい ないことが甲明すると、流晶パネル33の制御第27に はCPU18を通じてその信号が出力され、これにより 各図柄に対向する流晶パネル33の全領域が一定時間だ け半透明状態に彩色されて遊校者に入責しなかったこと を知らせる。

【00171以上、本発明の好適な一例を説明したが、本発明は上記例に限らず、例えば入資パターンとは無関係な図配と対向する領域の影色を選くして、該領域を不透明にすることにより、これに対応する区間を不鮮明な表示でなく全くの不可規状態にすることもできる。違い、入資パターンを形成した区間を透視可能にしたまま。該図附との対向領域を半透明状態に彩色する。万、他の図相との対向領域を無透明のまま残すようにすることもできる。又、入資パターンを形成した図柄上の領域を半透明状態に彩色する一方、入資パターンとに無関係な図柄上の領域をと透明状態に彩色する一方、入資パターンとに無関係な図柄上の領域を入質パターンに関係する図柄上の領域と異色にして半透明又は不透明に彩色するようにしてもよい。

【0018】更に、護別手段たる液晶パネルの制御法として、一回のゲームが終了するたび(全ドラムの停止後)に流乱パネル33の全領域を半透明又は不透明に彩色し、メグル投入時の機能信号を受けて対応する入賞ライン上の領域を透明とし、全ドラム2が停止して所定の固相で入電パターンが形成されたときには、これに対向する領域を乗して先に他の領域を半透明又は不透明にし、次いで一定時間経過後(例えばメダルが払い出し終えるまで、入資パターン領域を半透明又は不透明にするようにしてもよい。

【0019】一方、説別手段を一枚の流晶パネルで構成 するのでなく、表示部に乗れる図附にり頂した数の流晶 パネルを用い、これらをそれぞれ個別に制御するように してもよい。又、各ドラムの周面上に説別手段たる流晶 パネルを除ませて装置するのでなく、各ドラムを流晶表 示装置から成る表示部として、その表示部上に説別手段 としての流流パネルを重ね合かせるようにしてもよい。 更に、説別手段として流晶パネルを用いず、図構が縦値 に整列して示される表示部において、各個柄の表示面 にた利して示される表示部において、各個柄の表示面 にそれぞれ優別に開閉操作が可能な運動となるよう。 にしてもよい。

【0020】こで、入資パターンは、同種の図情が一 直線上に配列することに限るものでなく、例えば図5の ようにハート形で示される信頼が十字状に並んだ場合を 入費パターンとして設定してもよい。特に、本発明では 図5のような入費パターンにしても、これを関時に判別 することが確定さる。

[0021]

【発明の効果】以上の説明で明らかなように、木発明に係るスロットマシンによれば、表示部上にあらわれた図 解が所定の入客パターンを形成したときに、その対向領 域を透明にして無関係な国帯が対南する領域を下透明又 は不透明とするなどした説別手段を備えていることか ら、入資時には数あるうちの何れの入資パターンが形成 されたか、又その入資パターンが表示部の知何なる位置 に形成されたかを避技者が解率に判別できる。これによ り、ゲームの面白味が増立なかりでなく、入質パターン を接線にしてゲームの多様化を図ることもできる。 [図面の簡単な説明]

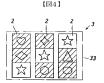
【図1】本発明に係るスロットマシンを示した正面概略 図

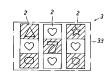
【図2】同スロットマシンの制御回路を示したブロック

【図3】表示部の構成例を概略的に示した部分断面図 【図4】入賞パーンを形成した図柄とそれ以外の図柄と が区分された状態を示した表示部の正面機略図

【図5】入賞パターンの変形例を示した表示部の正面概 略図

- 【符号の説明】
- 1 機枠
- 2 ドラム
- 表示部
 操作部
- 5 スロットレバー
- 6 ストップボタン
- 31 窓
- 32 ベゼル
- 33 液品パネル





[図5]

